

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3215473

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
STEVEN R. LEDBETTER	07/14/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GENZYME CORPORATION
<b>Street Address:</b>	500 KENDALL SQUARE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02142
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14059241
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	001662-0009-106
<b>NAME OF SUBMITTER:</b>	TRACY W. CHU
<b>SIGNATURE:</b>	/Tracy W. Chu/
<b>DATE SIGNED:</b>	02/06/2015
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

I,

(1) Steven R. Ledbetter,

residing at

(1) 138 Ruggles Street, Westborough, Massachusetts, MA, 01581,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to and do hereby assign, sell and transfer to GENZYME CORPORATION, a corporation existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 500 Kendall Square, Cambridge, MA, 02142, U.S.A. its successors and assigns (1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all my inventions and discoveries disclosed in the application for Letters Patent in the United States entitled: ANTIBODIES TO TGF-BETA, and filed in the United States Patent and Trademark Office (USPTO) on February 8, 2006, under Serial Number 11/350,906, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of GENZYME CORPORATION, its designee, or in our name at GENZYME CORPORATION's or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world and any renewals, revivals, reissues, reexaminations and extensions of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to GENZYME CORPORATION as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of GENZYME CORPORATION to execute and to deliver to A GENZYME CORPORATION any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of GENZYME CORPORATION such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of GENZYME CORPORATION under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

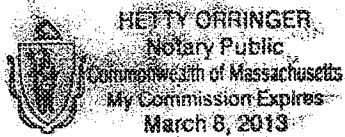
It is our intention that this Assignment be effective and all rights transferred herein shall be considered to have vested in GENZYME CORPORATION on February 8, 2005, the filing date of United States Provisional Application No. 60/651,343.

ASSIGNOR:

7-14-06  
Date

Steven R Ledbetter (1)  
Steven R. Ledbetter

On this \_\_\_ day of \_\_\_\_\_, 2006, Steven R. Ledbetter (1) personally appeared before me, a Notary Public in and for Assignor, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.



(Notarial Seal)

Betty Orringer  
Notary Public

My Commission Expires:

3/8/2013

ACKNOWLEDGEMENT OF ASSIGNEE:

GENZYME CORPORATION

By: [Signature]

Name: Thomas J. DesRosier

Title: Senior Vice President, General Counsel  
and Chief Patent Counsel

On this 10th day of July, 2006, Thomas J. DesRosier personally appeared before me, a Notary Public in and for the Assignee, and duly acknowledged the executed Assignment on behalf of the Assignee.

Deborah A. Gunkel  
Notary Public / Deborah A. Gunkel

(Notarial Seal)

My Commission Expires: July 16, 2010

